

WHAT IS CLAIMED IS:

1           1. / A tray and dolly assembly comprising:  
 2           a dolly having a floor with upper and lower surfaces and with a plurality of protruding  
 3           members extending upwardly from the upper surface; and  
 4           a tray having a floor with upper and lower surfaces and with a plurality of  
 5           openings, the tray having a pair of opposed side walls wherein when the tray floor is  
 6           received on the dolly floor, the plurality of protruding members extends into the  
 7           plurality of openings to interlock the tray with the dolly but does not extend beyond  
 8           the tray floor upper surface.

1           2.       The tray and dolly assembly of claim 1 further comprising:  
 2           a plurality of casters supporting the dolly floor.

1           3.       The tray and dolly assembly of claim 2 wherein the dolly floor is  
 2           rectangular in shape and has four corners, and wherein the plurality of casters is four  
 3           casters with a caster located proximate each corner of the dolly floor.

1           4.       The tray and dolly assembly of claim 1 wherein the plurality of openings  
 2           in the tray floor extend through the tray floor.

1           5.       The tray and dolly assembly of claim 4 wherein the tray floor comprises  
 2           a lattice structure defining the plurality of openings.

1           6.       The tray and dolly assembly of claim 1 wherein the protruding members  
 2           are diamond shaped.

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 1           7.       A tray and dolly assembly comprising:  
 2           a dolly having a floor with upper and lower surfaces and with a plurality of protruding  
 3           members extending upwardly from the upper surface; and  
 4           a tray having a floor with upper and lower surfaces and with a plurality of openings,  
 5           the tray having a pair of opposed side walls wherein when the tray floor is received on  
 6           the dolly floor, the plurality of protruding members extends into the plurality of  
 7           openings to interlock the tray with the dolly, wherein the dolly floor is rectangular in

8 shape and defines a central opening and wherein the protruding members are spaced  
9 at varied distances from the central opening.

1           8.     A tray and dolly assembly comprising:  
2 a dolly having a floor with upper and lower surfaces, and a pair of opposed side walls  
3 wherein each side wall has a locking portion; and  
4 a tray having a floor with upper and lower surfaces, the tray having a pair of opposed  
5 side walls wherein each side wall has a bottom locking portion, wherein each tray side  
6 wall has a top locking portion, and wherein each tray side wall top locking portion is  
7 configured to abut and mate with a corresponding tray side wall bottom locking  
8 portion of a next tray to allow a stack of trays to be placed on the dolly with adjacent  
9 trays interlocked with each other, and wherein each dolly side wall locking portion is  
10 configured to abut and mate with a corresponding tray side wall bottom locking  
11 portion on the tray to interlock the dolly with the tray.

1           9.     The tray and dolly assembly of claim 8 further comprising:  
2 a plurality of casters supporting the dolly floor.

1           10.    The tray and dolly assembly of claim 9 wherein the dolly floor is  
2 rectangular in shape and has four corners, and wherein the plurality of casters is four  
3 casters with a caster located proximate each corner of the dolly floor.

1           11.    The tray and dolly assembly of claim 8 wherein each dolly side wall  
2 locking portion has a plurality of inwardly extending locking portions.

1           12.    The tray and dolly assembly of claim 11 wherein each tray side wall top  
2 locking portion includes a plurality of inwardly extending locking portions that are  
3 shaped substantially the same as the dolly side wall locking portion inwardly extending  
4 locking portions.

1           13.    The tray and dolly assembly of claim 12 wherein each dolly side wall  
2 locking portion has a middle trapezoidal inwardly extending locking portion.

1           14.     The tray and dolly assembly of claim 13 wherein each tray side wall  
2     bottom locking portion has a middle trapezoidal recess.

1           15.     The tray and dolly assembly of claim 14 wherein each dolly side wall  
2     locking portion further has a pair of outside triangular inwardly extending locking  
3     portions.

1           16.     The tray and dolly assembly of claim 17 wherein each tray side wall  
2     bottom locking portion further has a pair of outside recesses.

1           17.     A tray and dolly assembly comprising:  
2     a dolly having a floor with upper and lower surfaces and with a plurality of protruding  
3     members extending upwardly from the upper surface, and a pair of opposed side walls  
4     wherein each side wall has a locking portion; and  
5     a tray having a floor with upper and lower surfaces and with a plurality of openings,  
6     the tray having a pair of opposed side walls wherein each side wall has a bottom  
7     locking portion and a top locking portion,  
8     wherein each dolly side wall locking portion is configured to abut and mate with a  
9     corresponding tray side wall bottom locking portion on the tray to interlock the dolly  
10    with the tray such that the plurality of protruding members extends into the plurality  
11    of openings, and wherein each tray side wall top locking portion is configured to abut  
12    and mate with a corresponding tray side wall bottom locking portion of a next tray to  
13    allow a stack of trays to be placed on the dolly with adjacent trays interlocked with  
14    each other.

1           18.     The tray and dolly assembly of claim 17 further comprising:  
2     a plurality of casters supporting the dolly floor.

1           19.     The tray and dolly assembly of claim 17 wherein the plurality of  
2     openings in the tray floor extend through the tray floor.

1           20.     The tray and dolly assembly of claim 19 wherein the plurality of  
2 protruding members extends into the plurality of openings but does not extend beyond  
3 the tray floor upper surface.

1           21.     The tray and dolly assembly of claim 20 wherein the tray floor  
2 comprises a lattice structure defining the plurality of openings.

1           22.     The tray and dolly assembly of claim 21 wherein the protruding  
2 members are diamond shaped.

1           23.     The tray and dolly assembly of claim 17 wherein each dolly side wall  
2 locking portion has a plurality of inwardly extending locking portions.

1           24.     The tray and dolly assembly of claim 23 wherein each tray side wall top  
2 locking portion includes a plurality of inwardly extending locking portions that are  
3 shaped substantially the same as the dolly side wall locking portion inwardly extending  
4 locking portions.

1           25.     A dolly assembly for receiving a tray having a tray floor, the dolly  
2 assembly comprising:  
3 a dolly having a floor with upper and lower surfaces, the dolly floor defined by an outer  
4 peripheral edge, the dolly having a plurality of protruding members extending upwardly  
5 from the upper surface, wherein the plurality of protruding members is adapted to  
6 extend into a plurality of openings in the tray floor when the tray floor is received on  
7 the dolly floor to interlock the tray with the dolly, and wherein each of the plurality of  
8 protruding members is a different distance from the outer peripheral edge.

1           26.     A dolly assembly for receiving a tray having a tray floor, the dolly  
2 assembly comprising:  
3 a dolly having a floor with upper and lower surfaces, the dolly having a pair of opposed  
4 side walls wherein each side wall has an inwardly extending locking portion, wherein  
5 each dolly side wall locking portion is configured to abut and mate with a  
6 corresponding tray side wall bottom locking portion on the tray to interlock the dolly

7 with the tray ; and  
 8 a plurality of protruding members extending upwardly from the upper surface, wherein  
 9 the plurality of protruding members is adapted to extend into a plurality of openings  
 10 in the tray floor when the tray floor is received on the dolly floor to further interlock  
 11 the tray with the dolly.

1 27. A tray and dolly assembly comprising:  
 2 a dolly having a floor with an upper surface and with a plurality of protruding members  
 3 extending upwardly from the upper surface, the dolly including a plurality of casters  
 4 supporting the dolly floor, the dolly floor including a plurality of caster pockets for  
 5 receiving casters of a stacked like dolly; and  
 6 a tray having a floor with an upper surface and a lower surface and a plurality of  
 7 openings in the lower surface, the tray having a pair of opposed side walls, wherein  
 8 when the tray floor is received on the dolly floor, the plurality of protruding members  
 9 extends into the plurality of openings to interlock the tray with the dolly and the floor  
 10 is positioned at least partially over the caster pockets.

1 28. A tray and dolly assembly comprising:  
 2 a dolly having a floor with upper and lower surfaces and with a plurality of protruding  
 3 members extending upwardly from the upper surface, the dolly including a pair of  
 4 opposed peripheral sides in a plane different from a plane of the upper surface; and  
 5 a tray having a floor with upper and lower surfaces and with a plurality of openings,  
 6 the tray having a pair of opposed side walls wherein when the tray floor is received on  
 7 the upper surface of the dolly floor, the plurality of protruding members extends into  
 8 the plurality of openings to interlock the tray with the dolly.

1 29. The tray and dolly assembly of claim 28 wherein the tray is supported at  
 2 least partially by the pair of opposed peripheral sides and wherein the tray is supported  
 3 at least partially by the dolly upper surface.

1 30. The tray and dolly assembly of claim 29 wherein the dolly includes a  
 2 plurality of casters supporting the dolly floor, the upper surface of the dolly floor

- 3 including a plurality of caster pockets for receiving casters of a stacked like dolly, the
- 4 caster pockets positioned between the pair of opposed peripheral sides of the dolly.